



National Snow and Ice Data Center
Supporting Cryospheric Research Since 1976

Libre: Freeing your data - Free to share, discover, and use

R. Duerr, Mark A. Parsons



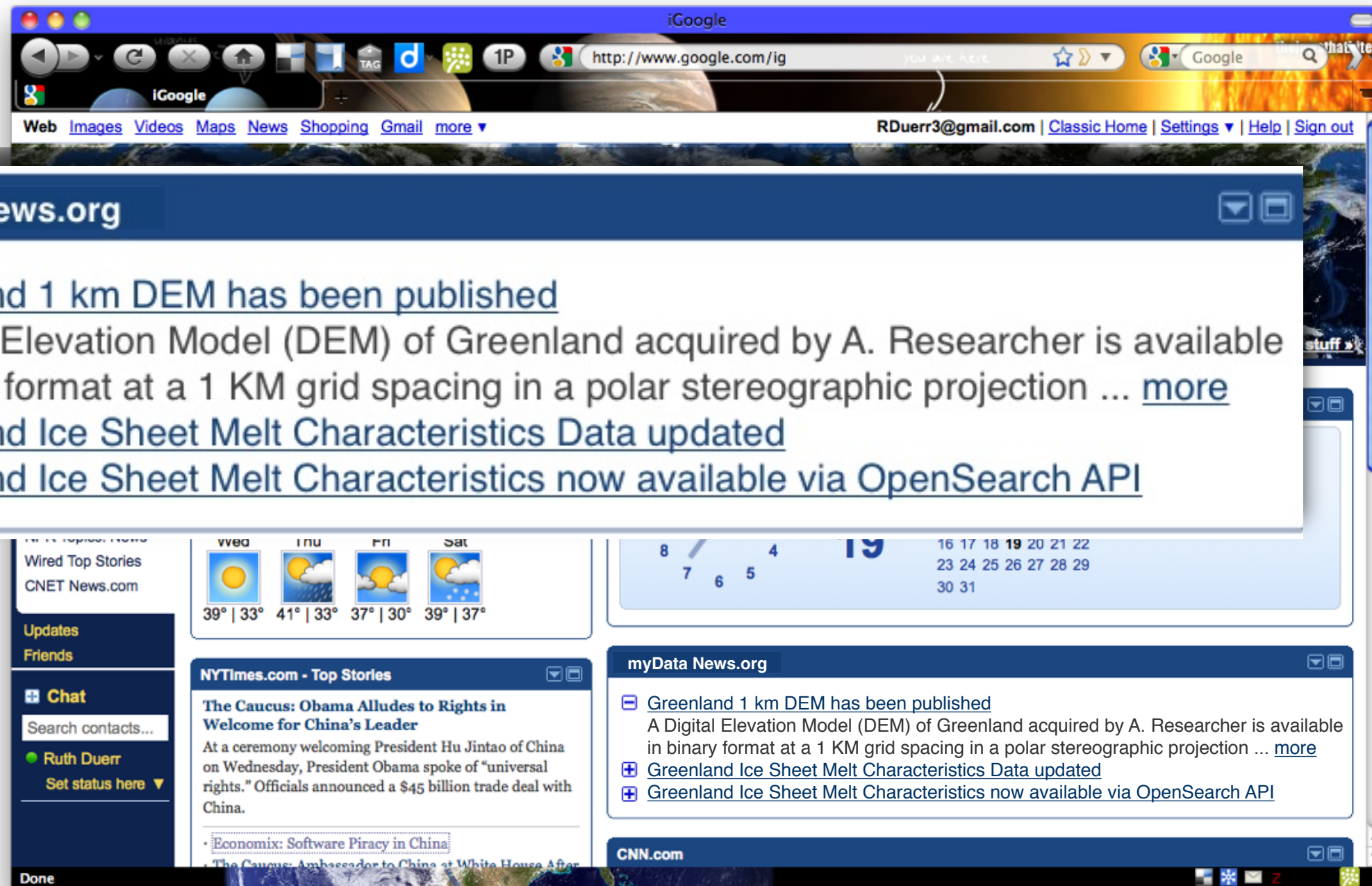
What if....

Finding data matching your interests was as easy as subscribing to the news?



What if....

Finding data matching your interests was as easy as subscribing to the news?



What would it take to make that happen?

- Simple mechanisms to advertise data and services
- Tailored aggregators looking for ads
- Aggregation-based news services and portals that allow user subscriptions

What would it take to make that happen?

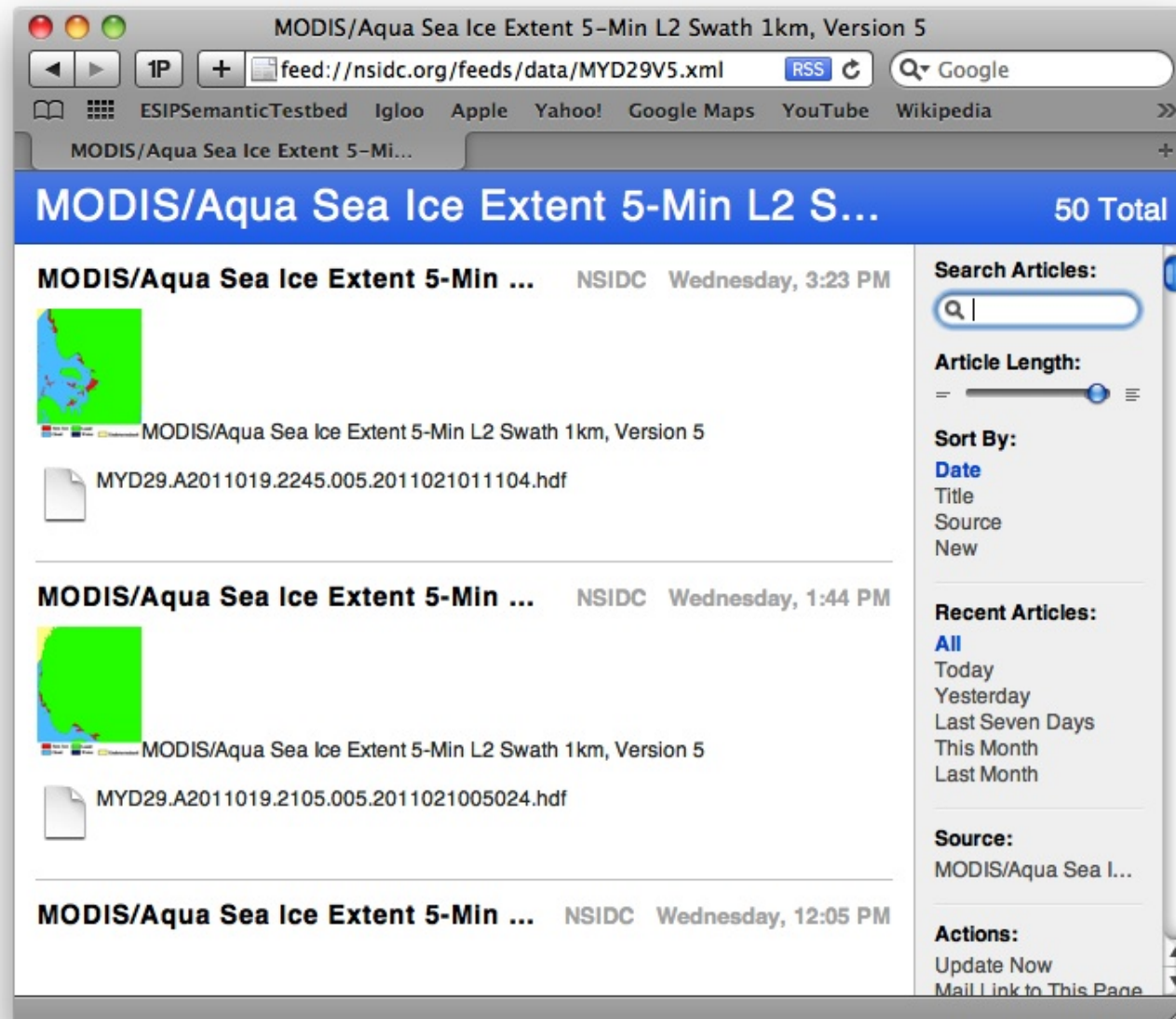
- Simple mechanisms to advertise data and services
- Tailored aggregators looking for ads
- Aggregation-based news services and portals that allow user subscriptions

Libre is working on all of these things!

Libre - Advertising Support through Casting

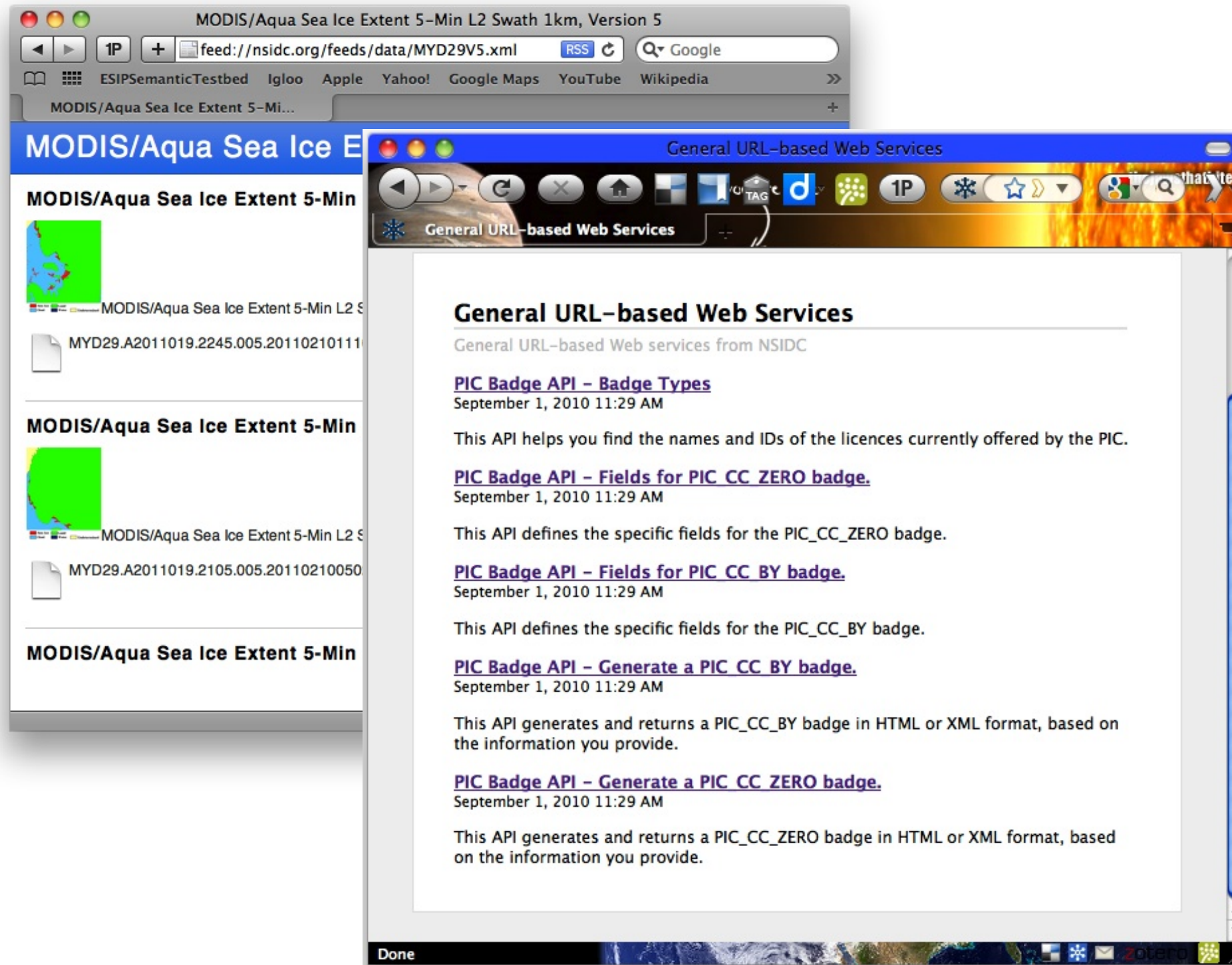
- Casting is the dissemination of news through subscription-based syndication formats
- Uses Atom, RSS, or any other syndication format
- Entries contain enough information
 - For subscribers to access the service or data
 - To populate search indexes
- Cast feeds can include:
 - Lists of available data collections
 - Lists of files available for download
 - Lists of services (OPeNDAP, OGC, WMS, etc.)

Libre - Advertising Support through Casting



A live data file cast feed

Libre - Advertising Support through Casting



A live service
cast feed

Libre - Advertising Support through Casting

A live data catalog feed

MODIS/Aqua Sea Ice Extent 5-Min L2 Swath 1km, Version 5

feed://nsidc.org/feeds/data/MYD29V5.xml

General URL-based Web Services

General URL-based Web services from NSIDC

PIC Badge API - Badge Types
September 1, 2010 11:29 AM

This API helps you find the name

PIC Badge API - Fields for PIC
September 1, 2010 11:29 AM

This API defines the specific field

PIC Badge API - Fields for PIC
September 1, 2010 11:29 AM

This API defines the specific field

PIC Badge API - Generate a P
September 1, 2010 11:29 AM

This API generates and returns a the information you provide.

PIC Badge API - Generate a P
September 1, 2010 11:29 AM

This API generates and returns a on the information you provide.

NSIDC

815 Total

AVHRR (1 km) Data Collected Onboard the USCGC Polar Sea Today, 11:50 AM

The AVHRR images were downloaded to the USCGC Polar Sea during the NSF/ARCSS/OAII-funded Northeast Water Polynya Project. There are 126 AVHRR images available from NOAA 10, 11, and 12 from July 19, 1993, to August 16, 1993.

Reconstructed North American Snow Extent, 1900-1993 Today, 11:50 AM

This data set contains reconstructed monthly North American snow extent values for November through March, 1900-1993. Investigators used a combination of satellite and station observations and based the reconstruction on linear regressions between the two types of observations. The data also includes standard errors of estimates as well as the observed values upon which the regressions were based. Station-based snow observations are available for dates since the early twentieth century but lack comprehensive spatial coverage. A remotely sensed product based on visible-band imagery provides more complete spatial coverage but has only been available since the early 1970s. Since the reconstructed values are based on regression, variability is underestimated and therefore the magnitude of some extreme values is underestimated. Data are available via FTP.

Reconstructed North American, Eurasian, and Northern Hemisphere Snow Cover ... Today, 11:50 AM

This data set contains time series of monthly snow cover extent (SCE) for North America, Eurasia, and the Northern Hemisphere from 1915 to 1997, based on snow cover reconstruction and NOAA satellite data. The reconstruction method used in situ snow depth and daily climate data from the U.S.A., Canada, China, and the former Soviet Union to generate a monthly snow cover index, which was found to be closely related to satellite-derived estimates of SCE in certain months. Brown (2000) describes the method, which is considered to be more robust than SCE reconstruction based on statistical methods (see Brown, 1997; Frei et al., 1999). In addition, the data set contains time series of annual variation in areally-averaged monthly snow depth and (SWE) for the North American grid domain used to derive the snow cover index. These provide additional insights into secular changes in snow cover over North America since SCE and depth variations are not always positively correlated. Data are available via FTP.

Search Articles:

Article Length:

Sort By:

Date
Title
Source
New

Recent Articles:

All
Today
Yesterday
Last Seven Days
This Month
Last Month

Source:

NSIDC

Actions:

Update Now
Mail Link to This Page
Subscribe in Mail
Add Bookmark...

Libre - Advertising Support

- Things that are easy
 - Casting all of NSIDC's data sets
 - Casting some of NSIDC's data granules
 - Casting NSIDC services
 - Working with groups like ESIP to get others to cast their data and services
- Things that are hard
 - Convincing regular scientists to cast their data

What if...

Advertising your data so that everyone could find them, were as simple as...

- 1 - Filling out a web form
- 2 - Saving it to your website
- 3 - Adding it's link to your site

What if...

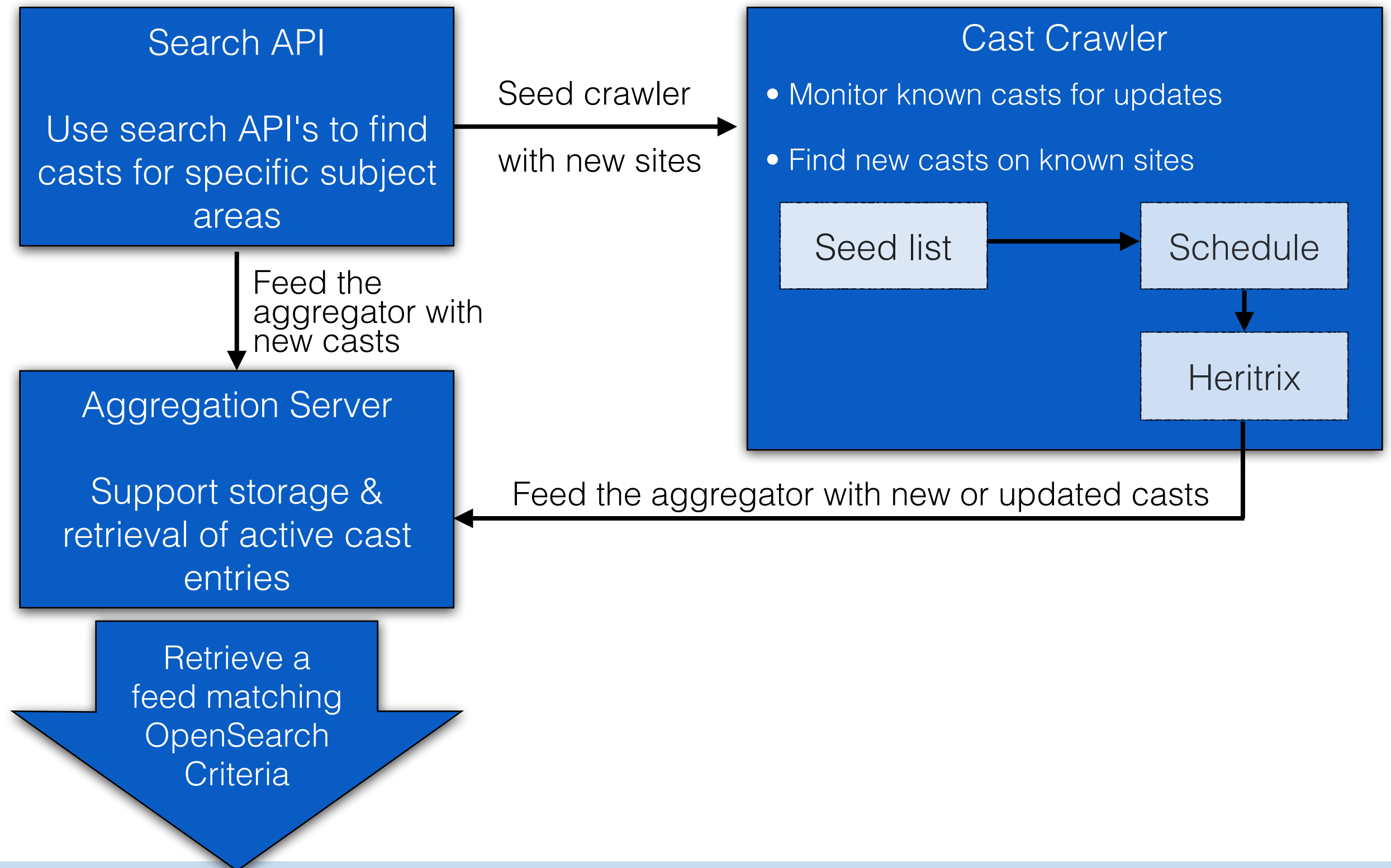
Advertising your data so that everyone could find them, were as simple as...

- 1 - Filling out a web form
- 2 - Saving it to your website
- 3 - Adding it's link to your site

Well... It can be!

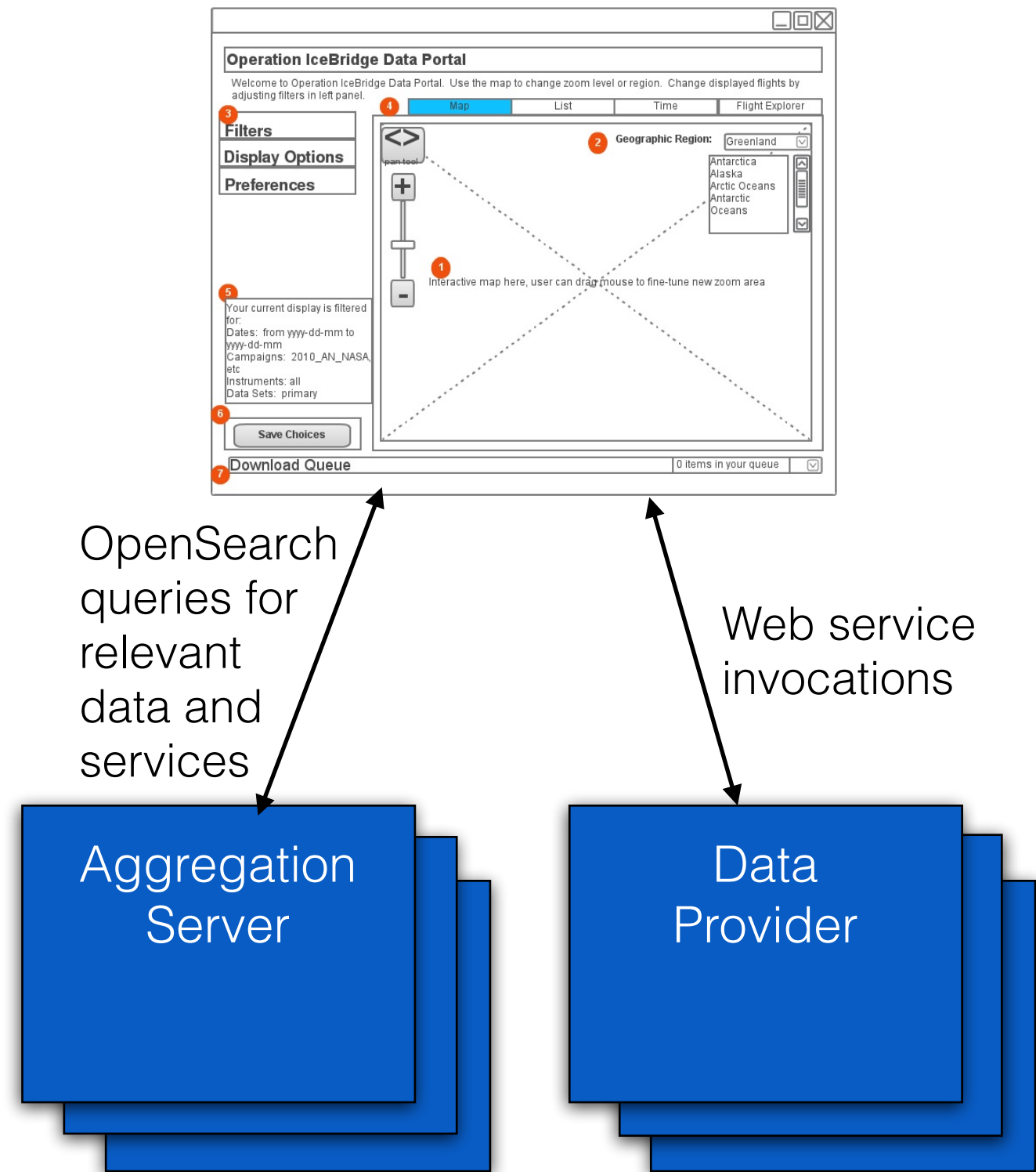
The screenshot shows a web browser window displaying the 'Data Set' form on the NSIDC Libre website. The browser's address bar shows the URL 'http://testsnowtest.org/libre/apps/cast/dataset/'. The page header includes the NSIDC logo and navigation links like 'Data', 'Programs & Projects', 'Science', 'Publications', 'News & Events', and 'About'. The main heading is 'Libre Data Casting, Services, & Applications'. The form itself has tabs for 'Data set', 'Citation', 'Attributes', 'Coverage', 'Contacts', 'Rights', and 'Data Cast'. The 'Data set' tab is active, showing fields for 'Entry ID', 'Data set title', 'Data set progress' (set to 'Planned'), 'Data set summary', and 'Data set language' (set to 'English'). A 'Next' button is at the bottom of the form. On the left side of the form, there is a Creative Commons BY license icon and text stating that rights to all Libre content are freely available under the CC BY license. The footer of the page includes the Colorado University of Colorado at Boulder logo, the CTRES logo, and contact information for The National Snow and Ice Data Center, supported by NASA and NSF. A 'WICKET AJAX DEBUG' button is visible in the bottom right corner.

Libre - Aggregation Support



Libre - Portal Support

- In conjunction with NSIDC's IceBridge Project, Libre is developing a portal that will demonstrate the power of these technologies
- OpenSearch will be used to discover relevant data and services which will then be used in providing portal discovery, subscription, access, and visualization capabilities.



Questions?